

In The Specification:

B-1 [0019] Outer skins 26A, 26B, and stiles 18, 20 and rails 22, 24 have a fire-resistant core 28 therebetween. Core 28 is formed of a plurality of spaced apart spacers 30 and a first sheet of fire-resistant insulating material 32 and a second sheet of fire-resistant insulating material 34 coupled to a respective first side and second side of the spacers 30. The thickness *T* of core [is preferably] may be the same thickness as hinge stile 18, latch stile 20, top rail 22, and bottom rail 24. That is, spacers 30 [are preferably] may be less than the thickness of hinge stile 18, latch stile 20, top rail 22, and bottom rail 24.

B-2 [0025] To assemble a door, the following process [is preferably] may be used. The steps described here may be formed in various orders and therefore is not meant to be limiting. In one constructed embodiment the steel studs were positioned at a maximum of twelve inches on center. Thus, for a large commercial door about four spacers 30 may be used as illustrated in Figure 1. The spacers 30 [are preferably] may be positioned vertically between and parallel with hinge stile 18 and latch stile 20. Those skilled in the art will recognize that various orientations of spacers 30 may be used depending on the type of spacer. The spacers 30 are also positioned between the top rail 22 and bottom rail 24. The first sheet of fire-resistant insulating material 32 and the second sheet of fire-resistant insulating material 34 are coupled to the spacers 30 and preferably extend to hinge stile 18, latch stile 20, top rail 22, and bottom rail 24. Fasteners or adhesives or a combination thereof may be used. If a thicker door is desired, the first sheet of fire-resistant insulating material 32 and the second sheet of fire-resistant insulating material 34 may extend over hinge stile 18, latch stile 20, top rail 22, and bottom rail 24.